

FORM PTO-1449/A and B (Modified)  
**INFORMATION DISCLOSURE  
 STATEMENT BY APPLICANT**

Sheet 1 of 4

APPLICATION NO.: 09/982,548	ATTY. DOCKET NO.: M0656.70070US00
FILING DATE: October 18, 2001	CONFIRMATION NO.: 7782
APPLICANT: Liu et al.	
GROUP ART UNIT: 1623	EXAMINER: McIntosh III, Traviss C

**U.S. PATENT DOCUMENTS**

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
(D)	A53	4,551,296		Kavesh et al.	11-05-1985
	A54	4,830,013		Maxwell	05-16-1989
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	A56	5,453,171		Ma et al.	09-26-1995
	A57	5,569,366		Chen et al.	10-29-1996
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	A61	5,759,767		Lakowicz et al.	06-02-1998
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**FOREIGN PATENT DOCUMENTS**

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		Office/Country	Number	Kind Code			
(D)	B15	EP	0 114 589	B1	President and Fellows of Harvard College	09-23-1987	
(D)	B16	EP	0 140 781		DROPIC Societe Civile de Gestion de Droit de Propriete Industrielle CHOAY	05-08-1985	Y- ABSTRACT ONLY
(D)	B17	EP	0 244 236	A2	Novo Industri A/S	11-04-1987	
(D)	B18	EP	0 342 215	B1	Genentech, Inc. et al.	08-25-1993	
(D)	B19	EP	0 394 971	A1	KabiVitrum AB et al.	10-31-1990	
(D)	B20	WO	92/01003	A1	Board of Regents, the University of Texas System	01-23-1992	
(D)	B21	WO	93/05167	A1	Children's Medical Center Corporation	03-18-1993	
(D)	B22	WO	93/10450	A1	Glyko, Inc.	05-27-1993	
(D)	B23	WO	93/15406	A1	Imperial College of Science, Technology and Medecine	08-05-1993	
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B25	WO	95/13830	A1	Massachusetts Institute of Technology et al.	05-26-1995	
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B27	WO	97/11684	A1	Ibex Technologies, Inc.	04-03-1997	
B28	WO	98/04902	A1	The State of Oregon	02-05-1998	

#### OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Materials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C47	AMEER et al., "A New Approach to Regional Heparinization: Design and Development of a Novel Immobilized Heparinase Device", <i>Blood Purification Meeting Information: The International Conference on Continuous Renal Replacement Therapies</i> , 16(2):107-108, 1998. <b>ABSTRACT ONLY</b>	
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	C49	BERRY et al., "Distinct Heparan Sulfate Glycosaminoglycans are Responsible for Mediating Fibroblast Growth Factor-2 Biological Activity Through Different Fibroblast Growth Factor Receptors", <i>The FASEB Journal</i> , Express Article No.:10.1096/fj.00-0661fje; 1-19, 2001.	
	C50	BIEMANN, "Four Decades of Structure Determination by Mass Spectrometry: From Alkaloids to Heparin", <i>J. Am. Soc. Mass. Spectrom.</i> , 13: 1254-1272, 2002.	
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	C52	CLAVERIE et al., "Information Enhancement Methods for Large Scale Sequence Analysis", <i>Computers Chem.</i> , 17(2): 191-201, 1993.	
	C53	COHEN, "The Parallel $\beta$ Helix of Pectate Lyase C: Something to Sneeze At", <i>Science</i> , 260: 1444-1445, 1993.	
	C54	CRUM et al., "A New Class of Steroids Inhibits Angiogenesis in the Presence of Heparin or a Heparin Fragment", <i>Science</i> , 230: 1375-1378, 1985.	
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	C56	ERNST et al., "Expression in <i>Escherichia coli</i> , Purification and Characterization of Heparinase I from <i>Flavobacterium heparinum</i> ", <i>Biochem. J.</i> , 315: 589-597, 1996.	
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	C58	FOLKMAN et al., "Angiogenesis Inhibition and Tumor Regression Caused by Heparin or a Heparin Fragment in the Presence of Cortisone", <i>Science</i> , 221:719-725, 1983.	
	C59	FRANKLIN et al., "Pseudomonas aeruginosa AlgG is a Polymer Level Alginate C5-Mannuronan Epimerase", <i>Journal of Bacteriology</i> , 176(7): 1821-1830, 1994.	
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APPLICATION NO.:	09/982,548	ATTY. DOCKET NO.:	M0656.70070US00
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GROUP ART UNIT:	1623	EXAMINER:	McIntosh III, Traviss C

C67	JOHNSON et al., "Endothelial Cells Preparing to Die by Apoptosis Initiate a Program of Transcriptome and Glycome Regulation", <i>The FASEB Journal</i> , 18: 188-190, 2004.		
C68	KEISER et al., "Direct Isolation and Sequencing of Specific Protein-binding Glycosaminoglycans", <i>Nature Medicine</i> , 7(1): 123-128, 2001.		
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C77	MCLEAN et al., "Enzymic Removal of 2-O-Sulphato- $\Delta$ 4,5-Glycuronic Acid Residues from Heparin Oligosaccharides", <i>Proc. of the 7th Int'l. Symposium of Glycoconjugates</i> , p.68-69, 1983.		
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C81	MYETTE et al., "Expression in <i>Escherichia coli</i> , Purification and Kinetic Characterization of Human Heparan Sulfate 3-O-Sulfotransferase-1", <i>Biochemical and Biophysical Research Communications</i> , 290(4): 1206-1213, 2002.		
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(R)	C90	RHOMBERG et al., "Mass Spectrometric Sequencing of Heparin and Heparan Sulfate Using Partial Digestion with Heparinases", <i>45th Annual Conference of Mass Spectrometry Allied Topics</i> , p.1026-1027, 1997. <b>ABSTRACT ONLY</b>		
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(D)	C101	YODER et al., "New Domain Motif: The Structure of Pectate Lyase C, a Secreted Plant Virulence Factor", <i>Science</i> , 260:1503-1506, 1993.		
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not received

EXAMINER

DATE CONSIDERED

5/19/2004

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_, filed \_\_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

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